

DE 10215344

**Patents Cited by Inventor:** 0  
**Patents Cited by Examiner:** 3

**Citing Patents:** 0

**Articles Cited by Inventor:** 0  
**Articles Cited by Examiner:** 0

**Patent Number(s):**

DE10215344-A1 

**Title:**

Separation of solids from plastics, comprises heterogeneous crystallisation of crystallizable plastic followed by separation of the crystals from the mother solution

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**Patent Assignee Name(s) and Code(s):**

PRIMARY PROD TECHNOLOGIES GMBH (PRIM-Non-standard)

**Derwent Primary Accession Number:**

2004-000490 [03]

**Abstract:**

NOVELTY - A process for separating solids from plastics (1), comprises heterogeneous crystallisation of crystallizable plastics followed by separation of the crystals from the mother solution. The plastic or plastic mixture is dissolved in a solvent (2) or solvent mixture, then the solution temperature and concentration and solubility are adjusted and the crystallite structures are separated out, leaving a cleansed plastic solution (7).

USE - The process is used to separate solids from plastics.

ADVANTAGE - The process enables solids to be separated from high viscosity plastics

DETAILED DESCRIPTION - The plastic solution (3) is produced at raised temperature, and the temperature is lowered into the crystallisation region. Solubility reducing additives are mixed into the solution, and the solution is stirred during crystallisation (6). The solvent is hexane, octane or nonane.

DESCRIPTION OF DRAWING(S) - The drawing shows the plastics

plastics (1)

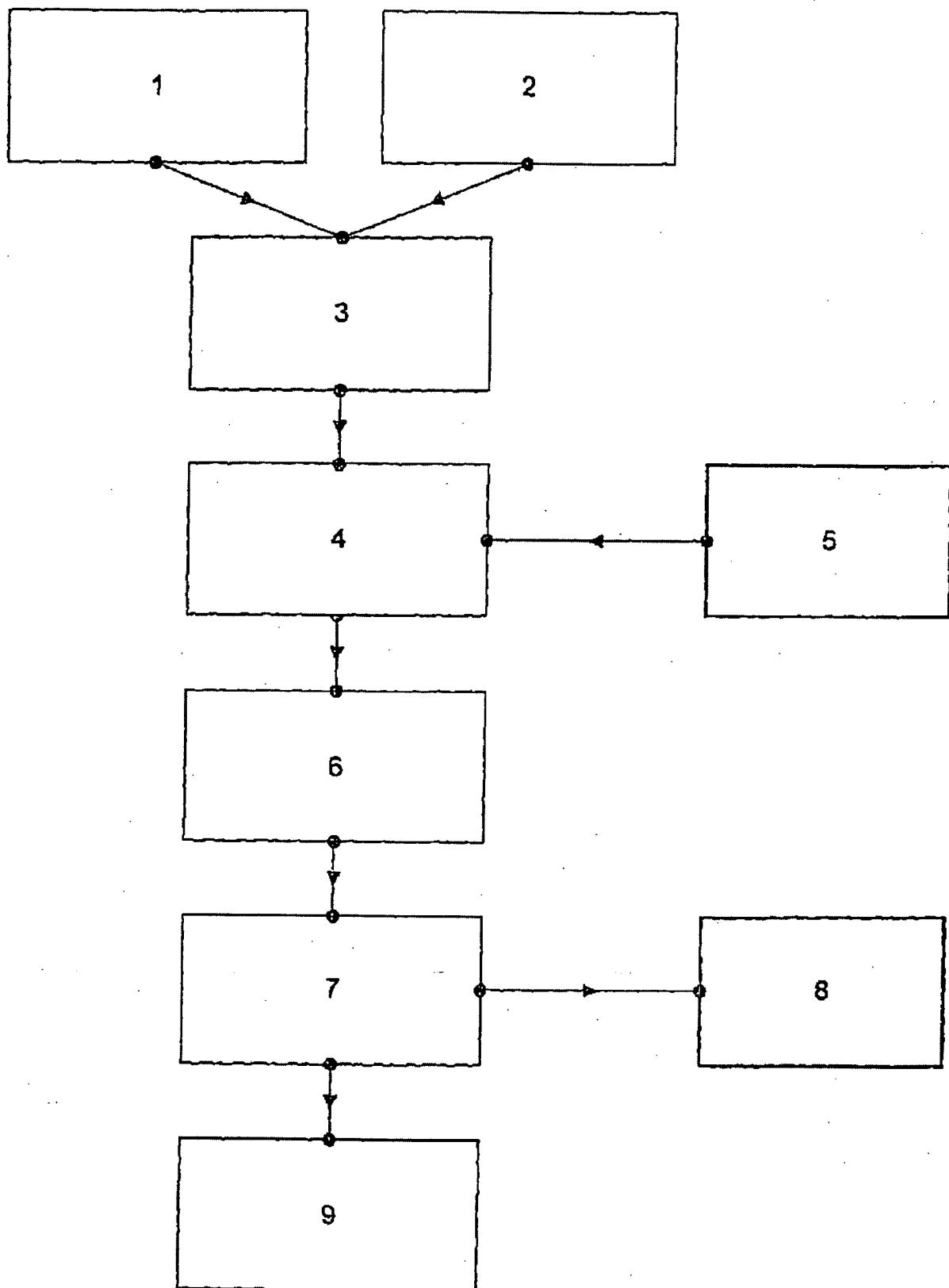
solvent (2)

plastic solution (3)

cleansed solution (7)

crystallisation (6)

**Drawing:**



**International Patent Classification:**

B29B-017/02; C08J-003/02; C08J-003/11; C08J-003/14; C08J-011/08

**Derwent Class:**

A35 (Other processing; vulcanisation, welding of plastics, adhesive processes)

**Derwent Manual Code(s):**

A10-G01B

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**Field of Search:**

B29B017/02; C08J003/02; C08J003/11; C08J003/14; C08J011/08